

Western States Rural Transportation Consortium Meeting

August 28, 2013

Overview/Agenda

- Welcome / Introductions
- Western States Forum Preview
- WSRTC Pooled Fund updates/discussions
- Incubator updates
- General project discussion
- Roundtable of recent/planned ITS activities
- Other discussions (as needed)

Western States Rural Transportation Technology Implementers Forum

Review



Western States

Rural Transportation
Technology Implementers

Forum

Western States Rural Transportation Technology Implementers Forum

June 18-20, 2013

Yreka, California

Holiday Inn Express



Western States

Rural Transportation
Technology Implementers

Forum

Presentations/Demonstrations



Caltrans District 2, Keith Koeppen:
CCTV Image Relay



**Nevada Department of Transportation,
Israel Anthony Lopez:** Design and
Implementation of Video for Rural ITS –
Nevada Department of Transportation





Presentations/Demonstrations



Caltrans, Headquarters Division of Traffic Operations, Martha Styer: Bike Detection in California

Caltrans District 9, Phil Graham: Automated Wind Warning System – Caltrans District 9





Western States

Rural Transportation
Technology Implementers

Forum

Presentations/Demonstrations

**Oregon Department of Transportation,
Doug Spencer:** Procuring the Advanced
Transportation Controller (ATC) for the
Oregon Dept. of Transportation and the
State of the National Standards





Western States

Rural Transportation
Technology Implementers

Forum

Presentations/Demonstrations



Western Transportation Institute, Doug Galarus: Field Element Data Quality Control from the Perspective of Data Redistribution

Nevada Department of Transportation, Jim Whalen: Design and Implementation of Nevada DOT's Wireless Point to Point and 3G/4G Rural Networks





Western States

Rural Transportation
Technology Implementers

Forum

Presentations/Demonstrations



Yegor Malinovskiy, Yinhai Wang, University of Washington; Ron Vessey, Washington State Department of Transportation: Error Assessment for Emerging Traffic Data Collection Devices

Idaho Transportation Department, Dennis Jensen: Winter Performance Measures – Idaho Transportation Department





Western States

Rural Transportation
Technology Implementers

Forum

Discussion

- 8th Annual Western States Forum
- 45 participants (4 have been to all 8, another 2 have attended 7, 22 first time attendees)
- 6 states and state DOTs (CA, ID, MT, NV, OR, WA)
- California – DRISI, HQ, all Districts but 11 & 12, CHP
- FHWA, 3 universities (UC Davis, UW, MSU)
- www.westernstatesforum.org



WSRTC Pooled Fund update/discussion

WSRTC Meeting Coordination, Western States Forum Travel Support and Website Maintenance (Task Order 4)

- Start Date: 5/1/2013
- End Date: 10/31/2014
- WSRTC Meeting Facilitation and Attendance:
 - WSRTTIF (and Steering Comm. mtg.): June, 2013
 - NRITS: August, 2013
 - Northwest Transportation Conference 2014
 - NRITS 2014 (if sufficient funds remain)
 - Other meetings via teleconference as needed.
- Western States Forum Support
- Website Content and Maintenance

Rural Traveler Information (One Stop Shop) (Task Order 2)

- Start Date: 10/1/2011
- End Date: 9/30/2014
- A no-cost extension was granted, with the objective of covering the 2013-2014 bad weather season.

WSRTC Pooled Fund

- Other Items for Discussion

Incubator Project Updates

Survey of Safety Warning Devices

- Agency contacts via telephone wrapping up
 - Summer construction season has made contacts more difficult
- Approach has been successful
 - Good leads have been obtained, but generally reaching the end of contacts
- Contacts made with all states of interest
 - CA, OR, WA, NV, AK, ID, AZ, NM, MT, WY, CO, UT

Survey of Safety Warning Devices

- Systems identified/documentated:
 - Ice/Weather warning (8)
 - Animal warning (8)
 - Curve Speed warning (15)
 - Traffic/Queue warning (5)
 - Variable Speed Limit (3)
 - Wind warning (7)
 - Runaway Truck Ramp (4)
 - Flood warning (3)
 - Visibility warning (2)
 - Tunnel warning (2)
 - Seismic warning (2)
 - Other (8) [vehicle overlength detection, travel time, automated deicing]

Survey of Safety Warning Devices

- On-going work
 - Wrap-up of contacts and summary of responses/information as received
 - If anyone has contacts (names/numbers/emails) please pass along
- Summary of work and preliminary findings made earlier this week at NRITS

Regional ICM Planning

- Work to-date
 - Literature review
 - ICM Planning protocols (urban)
 - Emergency Operations Center protocols
 - Develop rural ICM planning process
 - White paper project discussion and update of current status
 - Nomination/selection of demonstration corridors

Regional ICM Planning

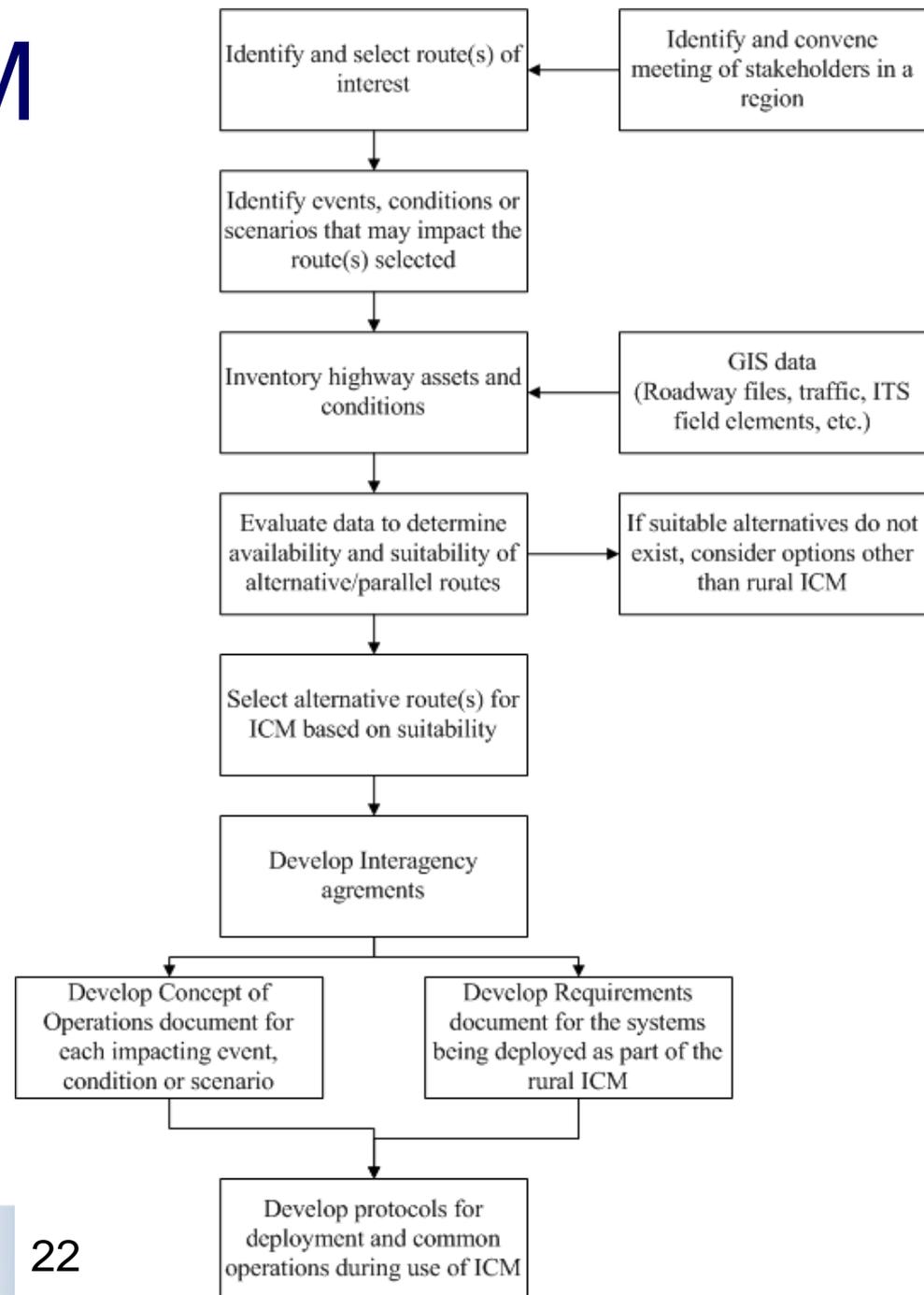
- Literature review – primary focus on urban applications
- USDOT ICM approach - not adequately defined
- EOC Plans/Protocols – framework to support decision-making and operations for rural ICM exists
 - Would need to develop coordinated set of protocols and interagency agreements to facilitate multi-state ICM

Regional ICM Planning

- Definition of regional ICM
 - Regional Integrated Corridor Management is defined as the coordination of highway facilities across state and jurisdictional boundaries in a seamless manner to enable an interconnected system for long-distance cross-network travel in response to extended-duration events.
 - Note that true ICM is multimodal, but no alternate modes exist in a fashion across a region that can serve as seamless alternatives
 - Highways are the only viable option

Regional ICM Planning

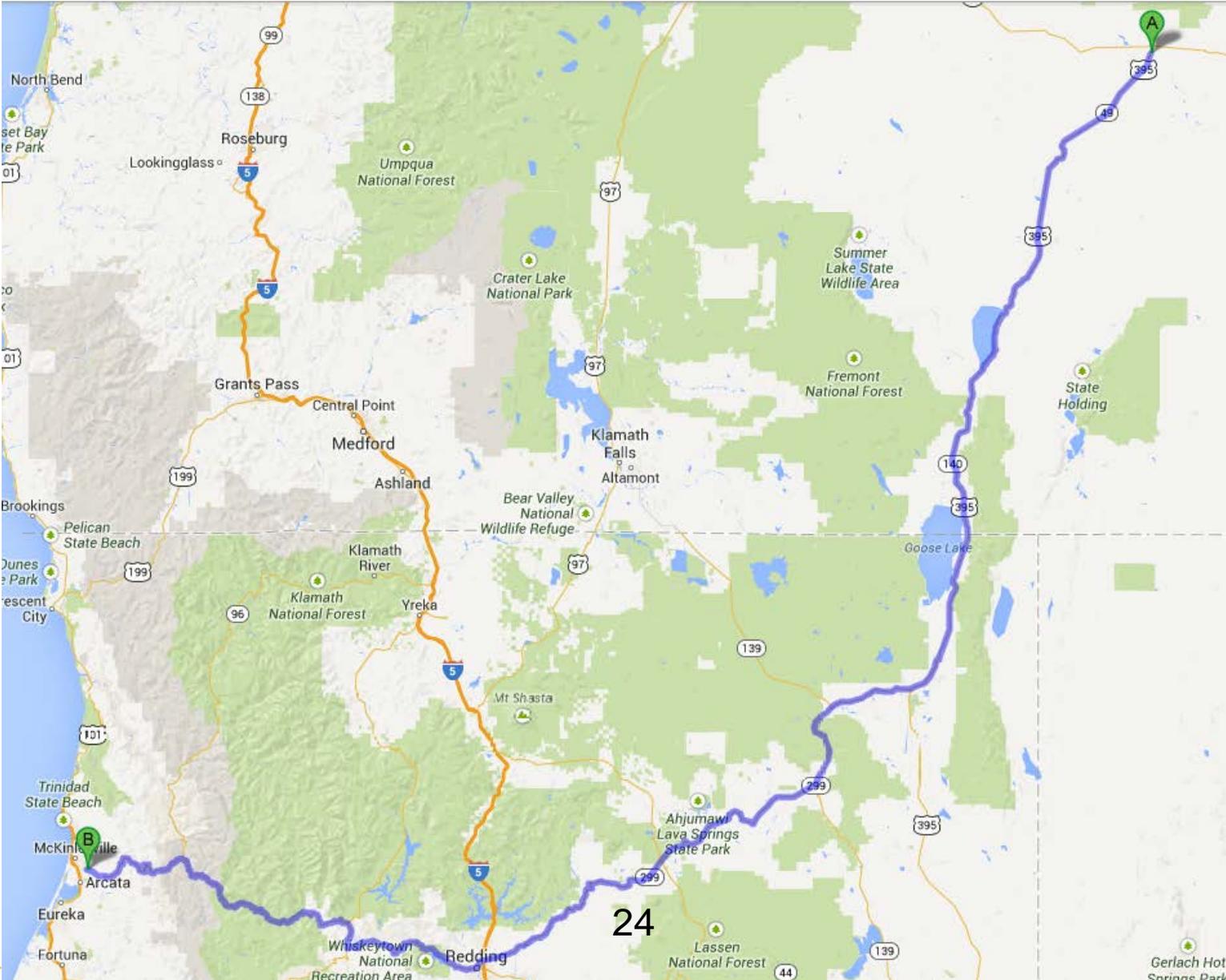
- Proposed planning approach
 - Demonstration to show application and identify revisions



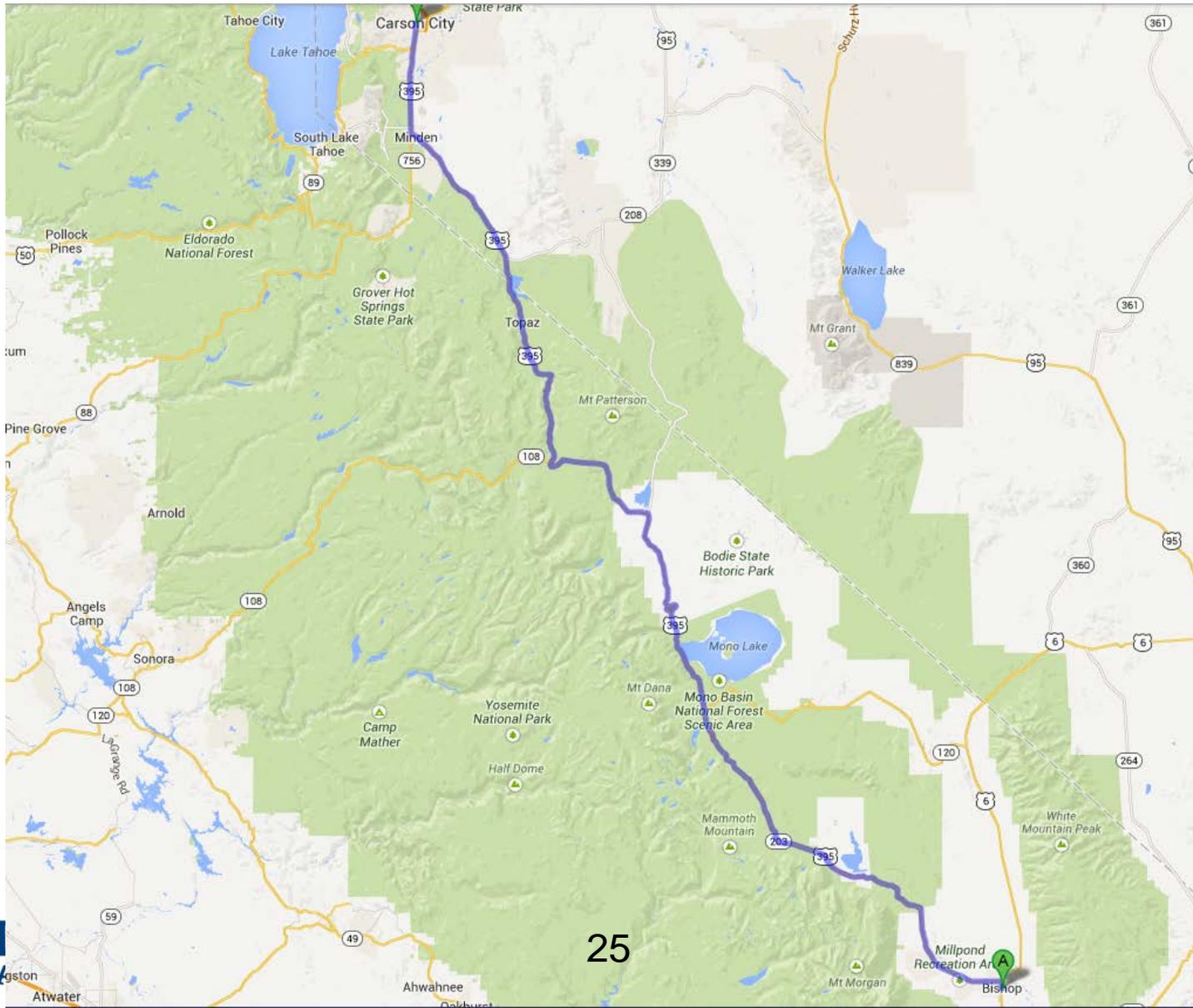
Demonstration

- Demonstration corridor input provided by group
- Two corridors nominated, consensus was to examine both
 - Route 299/ US 395 (CA and OR) – Arcata through Alturas to US 20 jct (OR)
 - U.S. 395 between Bishop, California and Carson City, Nevada

Rt 299 – US 395



US 395



Regional ICM Planning

- Next Steps and Needs

1. Proceed with route inventory for the selected corridor(s) and demonstrate the process at a high level
 - Use of GIS analysis to demonstrate how alternative routes can be identified and determined suitable for use in regional ICM deployments
 - Demonstrated process will not develop Con Ops or Requirements documents, interagency agreements or operations protocols
2. Refinement of the proposed planning process based on findings
3. Final report, review and comment

Technology Incubator

- To be discussed – Bluetooth used for wait time estimation at chain-up area.

General project discussions

Spin-Off Projects – On-Going

- Automated Safety Warning Controller
 - Phase 2 just completed
 - 4/10/2012 - 3/14/2013
- Professional Capacity Building (PCB) for Communication Systems
 - Phase 2 in Progress
 - IP Networking Course scheduled for September 2013
 - 6/29/2011 – 10/31/2013
- Western States One Stop Shop for Rural Traveler Information
 - Phase 2 in Progress
 - 10/1/2011 - 9/30/2014
 - Extension granted to cover 2013-2014 bad weather season.

Spin-Off Projects – On-going

- WeatherShare
 - Phase 3 Initiated
 - 7/3/2012 – 6/29/2014
 - Extension through 2015 Anticipated
- Integration of Aviation AWOS with RWIS
 - Phase 3 Initiated
 - 7/3/2012 – 6/29/2014
 - Extension through 2015 Anticipated

Spin-Off Projects - Upcoming

- WeatherShare Integration with QuickMap
 - Pending
 - 7/1/2013 – 6/30/2018

NV_I-80 & Emigrant Summit



Expanded coverage of Nevada ...

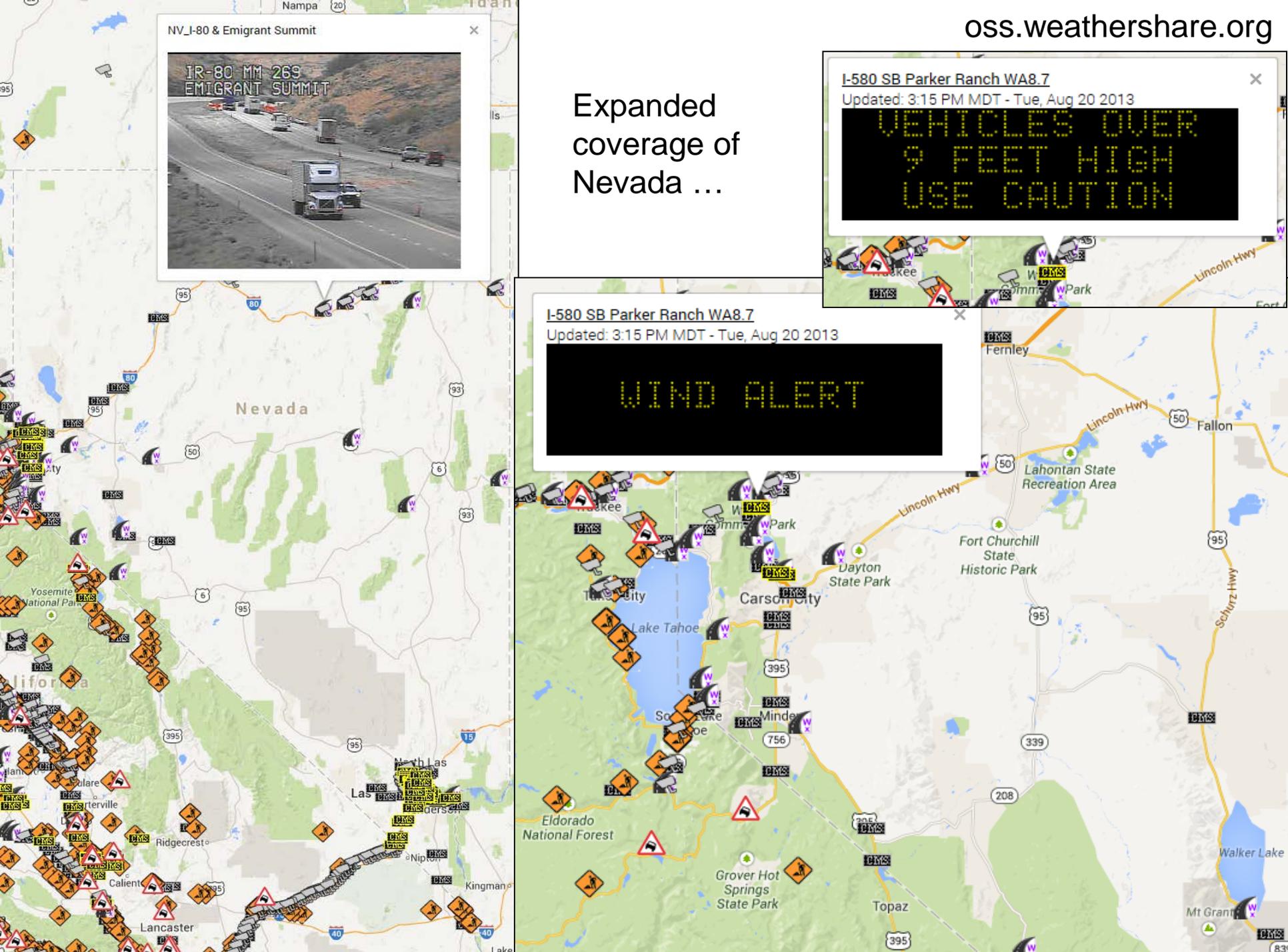
I-580 SB Parker Ranch WA8.7

Updated: 3:15 PM MDT - Tue, Aug 20 2013

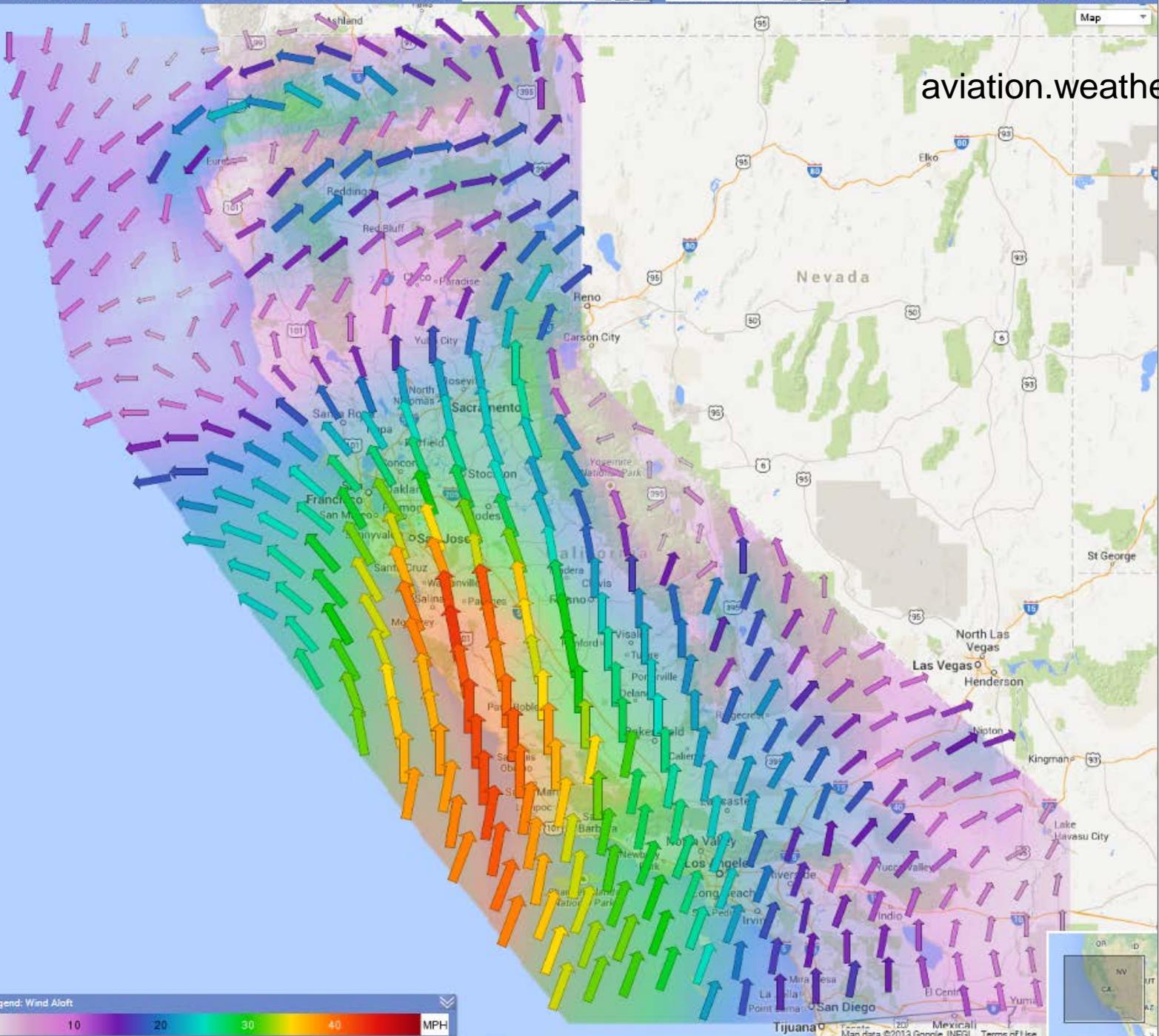


I-580 SB Parker Ranch WA8.7

Updated: 3:15 PM MDT - Tue, Aug 20 2013



aviation.weathershare.org



Roundtable of Recent ITS Activities

Upcoming Steering Committee Meetings

Steering Comm. Mtg.

- Interest in meeting at 2014 Northwest Transportation Conference?
 - Corvallis, Oregon – March 11-13, 2014
- Options:
 - In 2012, meeting was held last day, 9 am - noon
 - Other preferences/suggestions?

Other Discussions

Items

- Next meeting
- Action items
- Other

Wrap-up